^{29}Si(d,n) E=6,8 MeV 1974Uz01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia, A. Chakraborty	NDS 197,1 (2024)	31-May-2024

Target: SiO_2 of 90% enriched ^{29}Si; Projectile: d, E=6,8 MeV; neutrons were detected with a time-of-flight spectrometer in the angular range of 5° to 120° and 5° to 60° for 6- and 8-MeV neutrons, respectively; deduced level energies, proton angular momentum transfer, spectroscopic strength.

$J^{\pi}(^{29}Si)=1/2^{+}$.

^{30}P Levels

E(level)	L	S	Comments
0	0	2.85	
698 *15*	0+2		E(level): doublet.
1456 *12*	2	3.35	
1974 *12*	2	0.84	
2539 *12*	2	0.70	
2724 *12*	2	0.60	
2938 *12*	2	2.80	
3018 *12*	0+2		
3734 *8*	0+2		
3838 *10*	2	0.75	
4142 *8*	1	0.50	
4229 *8*	3	3.87	
4466 *10*	0	0.23	
4501 *8*	2	1.26	
4624 *8*	3	2.24	
4931 *12*	3	1.12	
5416 *7*	1	0.25	
5507 *7*	2	0.75	
5906 *7*	1		
5993 *7*	1		
6093 *7*	2		
6874 *7*	1		
6920 *7*	1		
7012 *7*	1		
7048 *7*	2		